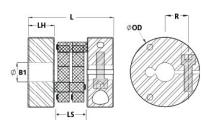




MCPRD37-15-A

Ruland MCPRD37-15-A, Controlflex Coupling Hub, Aluminum, Clamp Style, 37.0mm OD, 38.0mm Length





Description

Ruland MCPRD37-15-A is a Controlflex coupling hub with a 15mm bore, 37.0mm OD, and 38.0mm length. It is a component in a four-piece design consisting of two aluminum hubs mounted by pins to two acetal inserts creating a lightweight low inertia coupling capable of speeds up to 15,000 RPM. This four-piece design allows for a highly customizable coupling that easily combines clamp hubs with inch, metric, keyed, and keyless bores. Hardware is metric and tests beyond DIN 912 12.9 standards for maximum torque capabilities. Controlflex couplings have a balanced design for reduced vibrations at high speeds, can accommodate all forms of misalignment, and are an excellent fit for encoders, tachometers, and light duty stepper servo positioning applications. MCPRD37-15-A is RoHS3 and REACH compliant.

Product Specifications

Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the inserts. Und normal/typical conditions the hubs are capable of holding up to the rated torque of the inserts. In sor especially when the smallest standard bores are used or where shafts are undersized, slippage on the is possible below the rated torque. Keyways are available to provide additional torque capacity in the shaft/hub connection when required. Please consult technical support for more assistance. Prop 65 WARNING This product can expose you to chemicals including Ethylene Thiourea and Nickel (more shaft).	i roddot opcomodtions			
Hub Width (LH) 10.00 mm Length (L) 1.496 in (38.0 mm) Space Between Hubs (LS) 0.708 in (18.0 mm) Forged Clamp Screw M4 Screw Material Alloy Steel Hex Wrench Size 3.0 mm Screw Finish Black Oxide Seating Torque 3.0 Nm Screw Location (R) 12.4 mm Number of Screws 1 ea Rated Torque 4 Nm Angular Misalignment 1.0° Peak Torque 6 Nm Torsional Stiffness 3.40 Nm/Deg Axial Motion 0.70 mm Parallel Misalignment 1.0 mm Maximum Speed 15,000 RPM Recommended Inserts CPFRG23/37-AT Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Weight (lbs) 0.059500 Temperature -22°F to 175°F (-30°C to 80°C) Material Specification Clear Anodized Manufacturer Schmidt Kupplung UPC 634529225110 Country of Origin Germany Tariff Code 8483.60.8000 UNSPC 31163022 Note 1 Stainless steel hubs are available upon request. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular applic Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the inserts. Uncommal/typical conditions the hubs are capable of holding up to the rated torque of the inserts. Uncommal/typical conditions the hubs are capable of holding up to the rated torque of the inserts. Uncommal/typical conditions the hubs are capable of holding up to the rated torque of the inserts. In sore especially when the smallest standard bores are used or where shafts are undersized, slippage on to is possible below the rated torque. Keyways are available to provide additional torque capacity in the shaft/hub connection when required. Please consult technical support for more assistance. Prop 65	Bore (B1)	15 mm	B1 Max Shaft Penetration	10.0 mm
Space Between Hubs (LS) 0.708 in (18.0 mm) Forged Clamp Screw M4 Screw Material Alloy Steel Hex Wrench Size 3.0 mm Screw Finish Black Oxide Seating Torque 3.0 Nm Screw Location (R) 12.4 mm Number of Screws 1 ea Rated Torque 4 Nm Angular Misalignment 1.0° Peak Torque 6 Nm Torsional Stiffness 3.40 Nm/Deg Axial Motion 0.70 mm Parallel Misalignment 1.0 mm Maximum Speed 15,000 RPM Recommended Inserts CPFRG23/37-AT Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Weight (lbs) 0.059500 Temperature -22°F to 175°F (-30°C to 80°C) Material Specification 6082 Aluminum Bar Finish Clear Anodized Finish Specification Clear Anodized Manufacturer Schmidt Kupplung UPC 634529225110 Country of Origin Germany Tariff Code 8483.60.8000 UNSPC 31163022	Outer Diameter (OD)	1.457 in (37.0 mm)	Bore Tolerance	+0.06 mm / +0.02 mm
Screw Material Alloy Steel Hex Wrench Size 3.0 mm Screw Finish Black Oxide Seating Torque 3.0 Nm Screw Location (R) 12.4 mm Number of Screws 1 ea Rated Torque 4 Nm Angular Misalignment 1.0° Peak Torque 6 Nm Torsional Stiffness 3.40 Nm/Deg Axial Motion 0.70 mm Parallel Misalignment 1.0 mm Maximum Speed 15,000 RPM Recommended Inserts CPFRG23/37-AT Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Weight (Ibs) 0.059500 Temperature -22°F to 175°F (-30°C to 80°C) Material Specification 6082 Aluminum Bar Finish Clear Anodized Finish Specification Clear Anodized Manufacturer Schmidt Kupplung UPC 634529225110 Country of Origin Germany Tariff Code 8483.60.8000 UNSPC 31163022 Note 1 Stainless steel hubs are available upon request. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular applic Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the inserts. Unconsmal/typical conditions the hubs are capable of holding up to the rated torque of the inserts. In sor especially when the smallest standard bores are used or where shafts are undersized, slippage on to is possible below the rated torque. Keyways are available to provide additional torque capacity in the shaft/hub connection when required. Please consult technical support for more assistance. Prop 65	Hub Width (LH)	10.00 mm	Length (L)	1.496 in (38.0 mm)
Screw Finish Black Oxide Seating Torque 3.0 Nm Screw Location (R) 12.4 mm Number of Screws 1 ea Rated Torque 4 Nm Angular Misalignment 1.0° Peak Torque 6 Nm Torsional Stiffness 3.40 Nm/Deg Axial Motion 0.70 mm Parallel Misalignment 1.0 mm Maximum Speed 15,000 RPM Recommended Inserts CPFRG23/37-AT Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Weight (Ibs) 0.059500 Temperature -22°F to 175°F (-30°C to 80°C) Material Specification 6082 Aluminum Bar Finish Clear Anodized Finish Specification Clear Anodized Manufacturer Schmidt Kupplung UPC 634529225110 Country of Origin Germany Tariff Code 8483.60.8000 UNSPC 31163022 Note 1 Stainless steel hubs are available upon request. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular applic Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the inserts. Unconormal/typical conditions the hubs are capable of holding up to the rated torque of the inserts. Unconormal/typical conditions the hubs are capable of holding up to the rated torque of the inserts. Unconormal/typical conditions the hubs are capable of holding up to the rated torque of the inserts. In sore especially when the smallest standard bores are used or where shafts are undersized, slippage on to is possible below the rated torque. Keyways are available to provide additional torque capacity in the shaft/hub connection when required. Please consult technical support for more assistance. Prop 65	Space Between Hubs (LS)	0.708 in (18.0 mm)	Forged Clamp Screw	M4
Screw Location (R) 12.4 mm Number of Screws 1 ea Rated Torque 4 Nm Angular Misalignment 1.0° Peak Torque 6 Nm Torsional Stiffness 3.40 Nm/Deg Axial Motion 0.70 mm Parallel Misalignment 1.0 mm Maximum Speed 15,000 RPM Recommended Inserts CPFRG23/37-AT Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Weight (lbs) 0.059500 Temperature -22°F to 175°F (-30°C to 80°C) Material Specification Clear Anodized Manufacturer Schmidt Kupplung UPC 634529225110 Country of Origin Germany Tariff Code 8483.60.8000 UNSPC 31163022 Note 1 Stainless steel hubs are available upon request. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular applic Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the inserts. Unconormal/typical conditions the hubs are capable of holding up to the rated torque of the inserts. In sore especially when the smallest standard bores are used or where shafts are undersized, slippage on to is possible below the rated torque. Keyways are available to provide additional torque capacity in the shaft/hub connection when required. Please consult technical support for more assistance. Prop 65	Screw Material	Alloy Steel	Hex Wrench Size	3.0 mm
Rated Torque 4 Nm Angular Misalignment 1.0° Peak Torque 6 Nm Torsional Stiffness 3.40 Nm/Deg Axial Motion 0.70 mm Parallel Misalignment 1.0 mm Maximum Speed 15,000 RPM Recommended Inserts CPFRG23/37-AT Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Weight (lbs) 0.059500 Temperature -22°F to 175°F (-30°C to 80°C) Material Specification 6082 Aluminum Bar Finish Clear Anodized Finish Specification Clear Anodized Manufacturer Schmidt Kupplung UPC 634529225110 Country of Origin Germany Tariff Code 8483.60.8000 UNSPC 31163022 Note 1 Stainless steel hubs are available upon request. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular applic Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the inserts. Uno normal/typical conditions the hubs are capable of holding up to the rated torque of the inserts. In sor especially when the smallest standard bores are used or where shafts are undersized, slippage on to is possible below the rated torque. Keyways are available to provide additional torque capacity in the shaft/hub connection when required. Please consult technical support for more assistance. Prop 65	Screw Finish	Black Oxide	Seating Torque	3.0 Nm
Peak Torque 6 Nm Torsional Stiffness 3.40 Nm/Deg Axial Motion 0.70 mm Parallel Misalignment 1.0 mm Maximum Speed 15,000 RPM Recommended Inserts CPFRG23/37-AT Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Weight (lbs) 0.059500 Temperature -22°F to 175°F (-30°C to 80°C) Material Specification 6082 Aluminum Bar Finish Clear Anodized Finish Specification Clear Anodized Manufacturer Schmidt Kupplung UPC 634529225110 Country of Origin Germany Tariff Code 8483.60.8000 UNSPC 31163022 Note 1 Stainless steel hubs are available upon request. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular applic Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the inserts. Uncommal/typical conditions the hubs are capable of holding up to the rated torque of the inserts. In sore especially when the smallest standard bores are used or where shafts are undersized, slippage on to is possible below the rated torque. Keyways are available to provide additional torque capacity in the shaft/hub connection when required. Please consult technical support for more assistance. Prop 65	Screw Location (R)	12.4 mm	Number of Screws	1 ea
Axial Motion 0.70 mm Parallel Misalignment 1.0 mm Maximum Speed 15,000 RPM Recommended Inserts CPFRG23/37-AT Full Bearing Support Required? Yes Balanced Design Yes Weight (lbs) 0.059500 Temperature -22°F to 175°F (-30°C to 80°C) Material Specification 6082 Aluminum Bar Finish Clear Anodized Finish Specification Clear Anodized Manufacturer Schmidt Kupplung UPC 634529225110 Country of Origin Germany Tariff Code 8483.60.8000 UNSPC 31163022 Note 1 Stainless steel hubs are available upon request. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular applic normal/typical conditions the hubs are capable of holding up to the rated torque of the inserts. In sore especially when the smallest standard bores are used or where shafts are undersized, slippage on to is possible below the rated torque. Keyways are available to provide additional torque capacity in the shaft/hub connection when required. Please consult technical support for more assistance. Prop 65	Rated Torque	4 Nm	Angular Misalignment	1.0°
Maximum Speed 15,000 RPM Recommended Inserts CPFRG23/37-AT Full Bearing Support Required? Yes Balanced Design Yes Weight (Ibs) 0.059500 Temperature -22°F to 175°F (-30°C to 80°C) Material Specification 6082 Aluminum Bar Finish Clear Anodized Finish Specification Clear Anodized Manufacturer Schmidt Kupplung UPC 634529225110 Country of Origin Germany Tariff Code 8483.60.8000 UNSPC Note 1 Stainless steel hubs are available upon request. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular applic Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the inserts. Under the couplings are based on the physical limitations/failure point of the inserts. In sore specially when the smallest standard bores are used or where shafts are undersized, slippage on to is possible below the rated torque. Keyways are available to provide additional torque capacity in the shaft/hub connection when required. Please consult technical support for more assistance. Prop 65 ■ WARNING This product can expose you to chemicals including Ethylene Thiourea and Nickel (more)	Peak Torque	6 Nm	Torsional Stiffness	3.40 Nm/Deg
Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Weight (Ibs) 0.059500 Temperature -22°F to 175°F (-30°C to 80°C) Material Specification 6082 Aluminum Bar Finish Clear Anodized Finish Specification Clear Anodized Manufacturer Schmidt Kupplung UPC 634529225110 Country of Origin Germany Tariff Code 8483.60.8000 UNSPC 31163022 Note 1 Stainless steel hubs are available upon request. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular applic Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the inserts. Unconormal/typical conditions the hubs are capable of holding up to the rated torque of the inserts. In sore especially when the smallest standard bores are used or where shafts are undersized, slippage on the physical support for more assistance. Prop 65 ★WARNING This product can expose you to chemicals including Ethylene Thiourea and Nickel (more in the standard including inc	Axial Motion	0.70 mm	Parallel Misalignment	1.0 mm
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Temperature -22°F to 175°F (-30°C to 80°C) Material Specification 6082 Aluminum Bar Finish Clear Anodized Finish Specification Clear Anodized Manufacturer Schmidt Kupplung UPC 634529225110 Country of Origin Germany Tariff Code 8483.60.8000 UNSPC 31163022 Note 1 Stainless steel hubs are available upon request. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular applic Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the inserts. Unconormal/typical conditions the hubs are capable of holding up to the rated torque of the inserts. In sor especially when the smallest standard bores are used or where shafts are undersized, slippage on the physical support for more assistance. Prop 65 ▲WARNING This product can expose you to chemicals including Ethylene Thiourea and Nickel (materials)	Full Bearing Support Required?	Yes	Zero-Backlash?	Yes
Finish Clear Anodized Finish Specification Clear Anodized Manufacturer Schmidt Kupplung UPC 634529225110 Country of Origin Germany Tariff Code 8483.60.8000 UNSPC 31163022 Note 1 Stainless steel hubs are available upon request. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular applic Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the inserts. Unconormal/typical conditions the hubs are capable of holding up to the rated torque of the inserts. In sore especially when the smallest standard bores are used or where shafts are undersized, slippage on the physical standard bores are used or where shafts are undersized, slippage on the physical standard bores are used or where shafts are undersized, slippage on the specially when the smallest standard bores are used or where shafts are undersized, slippage on the shaft/hub connection when required. Please consult technical support for more assistance. Prop 65	Balanced Design	Yes	Weight (lbs)	0.059500
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	Note 3	normal/typical conditions the hubs are capable of holding up to the rated torque of the inserts. In some cases especially when the smallest standard bores are used or where shafts are undersized, slippage on the shaft is possible below the rated torque. Keyways are available to provide additional torque capacity in the		
	Prop 65	⚠WARNING This product can expose you to chemicals including Ethylene Thiourea and Nickel (metallic), known to the State of California to cause cancer, and Ethylene Thiourea known to the State of California to		

Installation Instructions

1. Align the bores of the MCPRD37-15-A controlflex coupling hub on the shafts that are to be joined with the drive pins facing each other and determine if the misalignment parameters are within the limits of the coupling. (*Angular Misialignment:* 1.0°, *Parallel Misalignment:* 1.0 mm, *Axial Motion:* 0.7 mm)

cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

- 2. Rotate the hubs on the shaft so the drive pins are 90° from each other.
- 3. Place the first hub at the end of the shaft. Tighten the clamp screw to 3.0 Nm using a 3.0 mm hex torque wrench.
- 4. Place an insert(s) with the standoffs facing the hub over the pins of the hub that was just installed.
- 5. Align the drive pins on the second hub to match the holes in the insert(s).
- 6. Verify that the space between hubs is 0.708 in, 18.0 mm.
- 7. Tighten the clamp screw on the second hub to the recommended seating torque of 3.0 Nm using a 3.0 mm hex torque wrench.